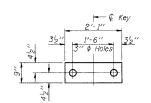
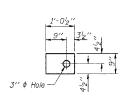
CONTRACT 91340

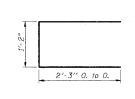
| SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------|-----------|-----------------|--------------|
| 03-00894 | -00-BR | CHAMPAIGN | 12 | 7 |
| STA | TO S | STA. | | |
| E LI W A DEC | H L INDIS | DDO IDOT | | |



FABRIC BEARING PAD



FABRIC BEARING PAD



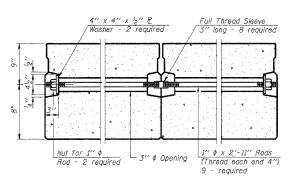
BAR U

TYPE S-1

BRIDGE RAIL

EXTERIOR BRG

-OMIT



Omit key on exterior face of outside beams. 104 4x3 #5 B bars Full length of bi 2-#5 B1 bars, .2 x length of beam. Each End 8 x 3-W2.5 x W5.5 Wire Fabric W2.5 longitudinal Full length of beam except at U bars 134 Standard Grid Patter — 3₄″ Chamfer

TYPICAL TRANSVERSE TIE ASSEMBLY

TYPICAL SECTION

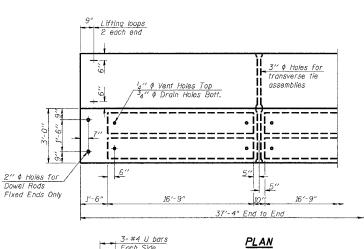
1/4" PER FOOT

11 - $^{1}_{2}$ " ϕ Strands, Each Strand Stressed to 30,900 Lbs. 9 - Strands 1^{3}_{4} " up, 2 - Strands 1^{2} " up

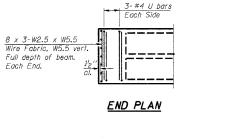
Note: Place strands symmetrically about ⊈ of beam.

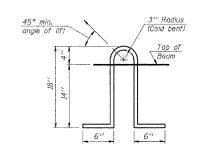
TYPE S-1 BRIDGE RAIL

EXTERIOR BRG.



<u>FIXED</u>





LIFTING LOOP DETAIL

CROSS SECTION

27'-0" + OVERRUN

€ ROADWAY

-P.G.L

<u>NOTES</u>

13'-6" + OVERRUN

-GROUTED KEY

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 2-½"\\$-270 ksi strands, as shown.
The 1" \\$\'\ rods in the transverse tie assembly shall be tightened to a snug fit and the threads
set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie
secondly is in election.

assembly is in places.

Non prestressing steel shall conform to AASHTO M-31, M-42 or M-53 Grade 60.

The bearing sed surfaces shall be adjusted by shimming to assure firm and even bearing. Two by fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to

shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

Required Release Strength, f'ci, shall be 4,000 p.s.i.

BILL OF MATERIAL - One Beam

| Bar | No. | Size | Length | Shape |
|--|-----|------|---------|-------|
| В | 12 | #5 | 14'-0" | |
| В, | 4 | #5 | 7′-6" | |
| | | | | |
| U | 12 | #4 | 5'-8" | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| - | | | | |
| Precast Prestressed Conc. Deck Bms. | | | Sq. Ft. | 1008 |
| | | | | |
| | | | | |

* TOTAL QUANTITY OF BEAMS

PD-3-S

10-22-04

SUPER STRUCTURE

SECTION 03-00894-00-BR CHAMPAIGN COUNTY € STATION 10+00